

**REPORT**

**OF THE**

**DEPARTMENT OF HEALTH**

**OF THE**

**PANAMA CANAL**

**FOR THE**

**MONTH OF JANUARY, 1915**

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**CHAS. F. MASON**

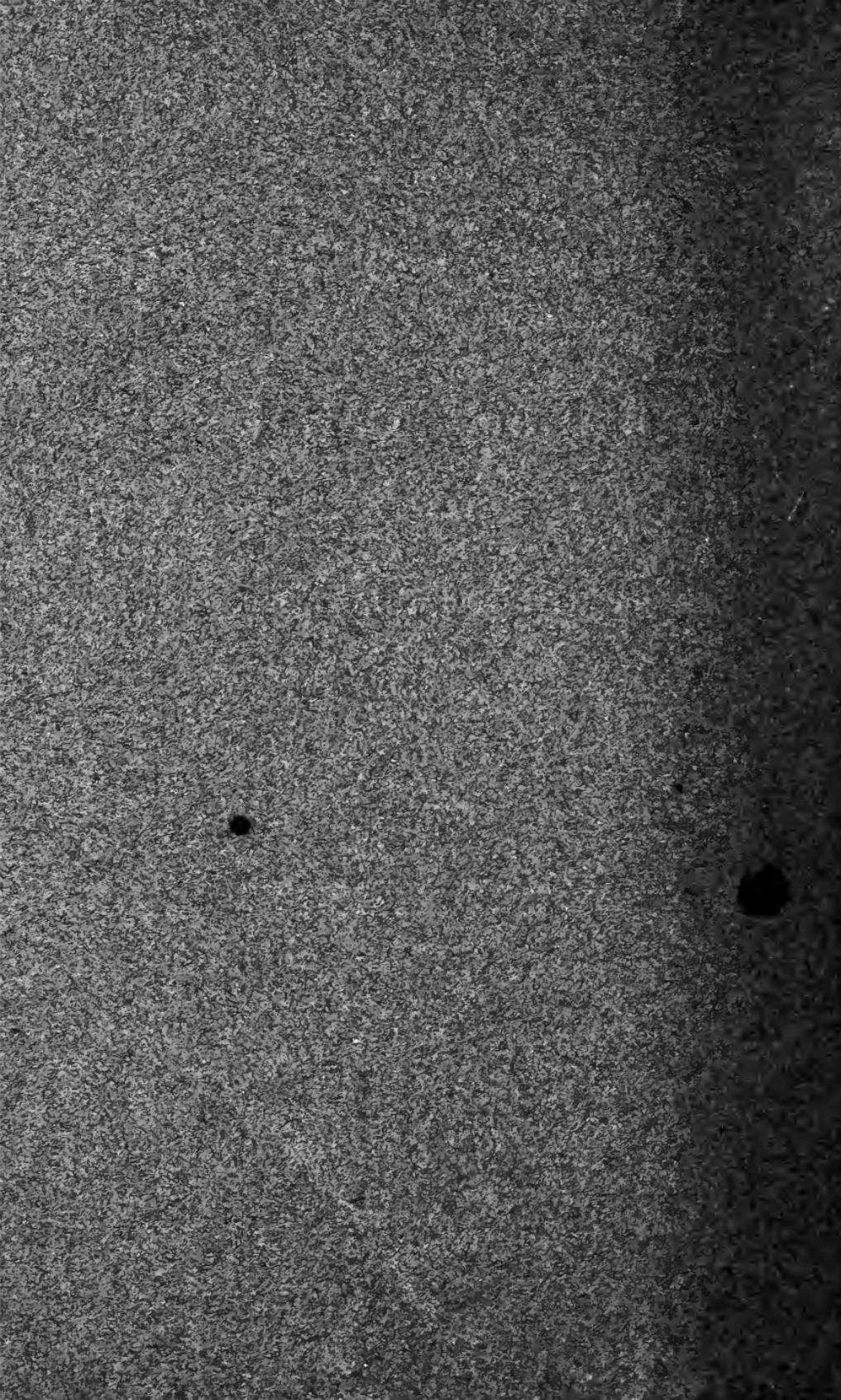
**Lieut. Colonel, Medical Corps, United States Army  
Chief Health Officer, Balboa Heights, Canal Zone**

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**WASHINGTON**

**1915**



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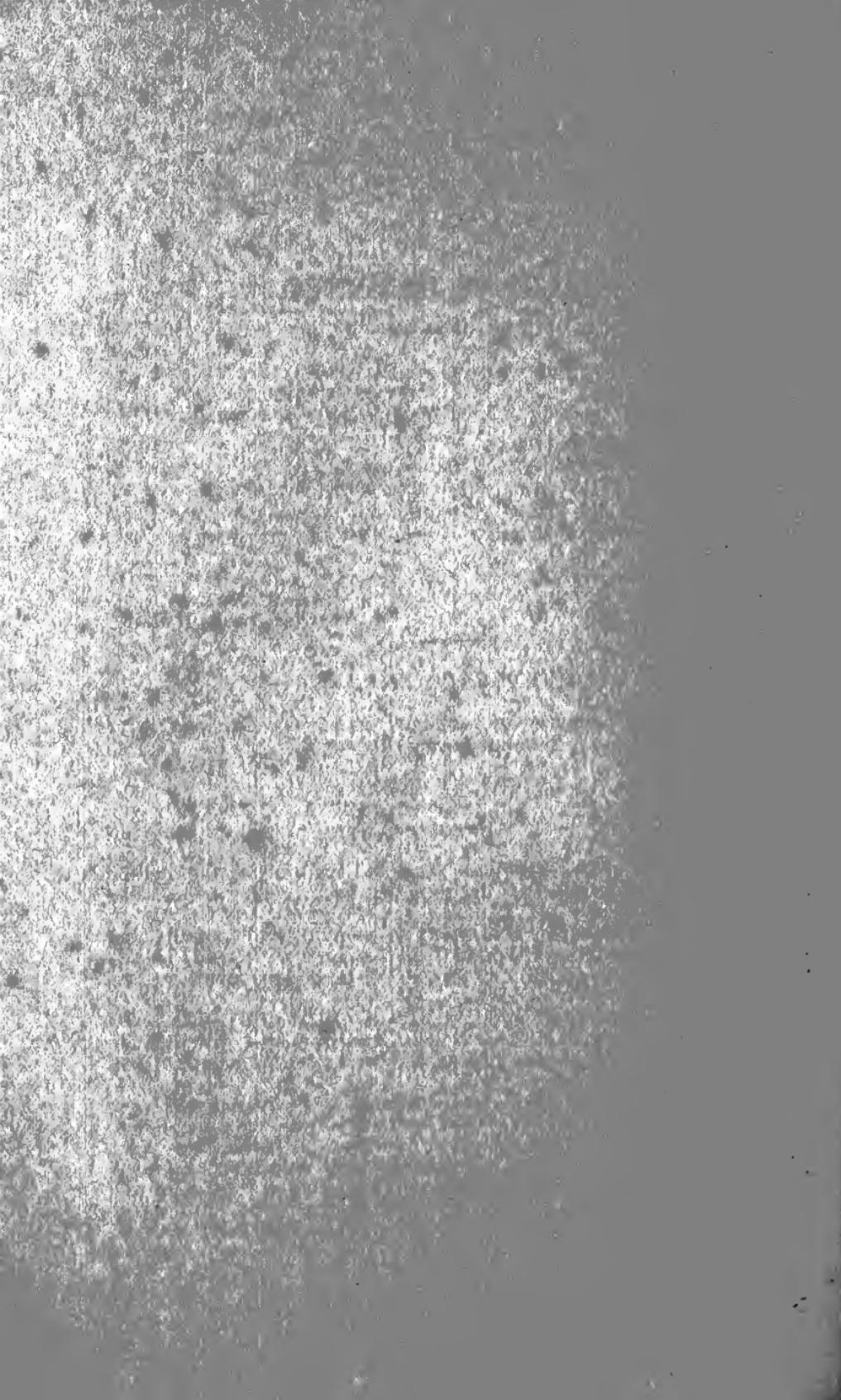
WASHINGTON

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## C O N T E N T S .

	Page.
Letter of transmittal.....	5
General remarks.....	5
Vital statistics:	
Health of employees.....	5
Health of residents of Canal Zone.....	6
Health of residents of the city of Panama.....	7
Health of residents of the city of Colon.....	7
Hospital Division:	
Ancon Hospital.....	7
Board of Health Laboratory.....	7
Farm for Disabled.....	8
Insane Department.....	8
Chronic ward.....	9
Colon Hospital.....	9
Palo Seco Leper Asylum.....	9
Santo Tomas Hospital.....	9
District dispensaries.....	10
Sanitary Division:	
Canal Zone.....	10
Panama.....	10
Colon.....	12
Quarantine Division:	
Panama.....	12
Colon.....	12
Statistical tables:	
Table I. Admissions, deaths, and noneffective rates for employees; deaths of residents of Panama, Colon, and the Canal Zone .....	13
II. Deaths by age, color, and sex.....	14
III. Deaths by nationality.....	15
IV. Deaths of white Americans.....	15
V. Causes of deaths of employees.....	16
VI. Causes of deaths of employees and civil population, and places where chargeable.....	16
VII. Admissions and deaths in the hospitals of the Panama Canal.....	20
VIII. Consolidated hospital report.....	32
IX. Consolidated dispensary and admission report.....	34
X. Employees: Constantly sick and noneffective rates per 1,000 .....	36
XI. Employees: Days' treatment per admission, hospitals and quarters.....	36
XII. Financial statement.....	37
XIII. Ancon Hospital.....	38
XIV. Colon Hospital.....	44
XV. Palo Seco Leper Asylum.....	45
XVI. Santo Tomas Hospital.....	45
XVII. Sanitary work done in Canal Zone, Panama, and Colon.....	47
XVIII. Quarantine transactions.....	49
XIX. Issues of quinine.....	51
XX. Personnel report.....	51



## LETTER OF TRANSMITTAL.

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THE PANAMA CANAL, CANAL ZONE,  
DEPARTMENT OF HEALTH,  
*Balboa Heights, February 12, 1915.*

Col. GEORGE W. GOETHALS,  
*Governor of the Panama Canal,*  
*Balboa Heights, Canal Zone.*

SIR: I have the honor to submit the following report of the operations of the department of health for the month of January, 1915.

Very respectfully,

CHAS. F. MASON,  
*Chief Health Officer.*

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### GENERAL REMARKS.

No cases of yellow fever, smallpox, or plague originated on or were brought to the Isthmus during the month.

### VITAL STATISTICS.

#### EMPLOYEES.

The health of the employees remained good during the month. The number of names on the rolls for the preceding month was 35,618.

The total number of admissions to hospitals and quarters was 988, a rate of 332.87 per thousand, as compared with 331.27 for the preceding month and 519.62 for the corresponding month of last year.

The total number of deaths from all causes was 17. Of these 13 died from disease, or 4.38 per thousand, as compared with 3.64 for the preceding month and 4.87 for the corresponding month of last year.

There were three deaths from malaria, as compared with one death for January of 1914. Of these deaths, one was a feeble old man of 68 years, who had been 23 years on the Isthmus and who had a complication of fatal diseases, of which malaria was only one element; another was a young woman who died of rupture of the spleen—a very rare accident in malarial cases; the third was a man who had been ill eight days without reporting for treatment

and was sent to the hospital in an unconscious condition, dying the next day. No other disease caused more than one death.

The constantly noneffective rate was 10.11, compared with 10.57 for the preceding month and 15.19 for the corresponding month of last year.

The total admission rate for malaria, hospitals and quarters, was 56.94, compared with 60.95 for last month, and the total non-effective rate 1.15, compared with 1.18 for last month; each of these rates being lower than for the same month last year. The diseases next to malaria causing the highest admission rates, in the order of their numerical importance, were: Diseases of the digestive system, venereal diseases, diseases of the respiratory and nervous systems. These five classes of diseases caused 50 per cent of all admissions to hospitals.

The admission rate for typhoid fever was 0.00 as against 0.33 for the previous month and 0.97 for the corresponding period of last year.

#### EFFECTS OF RACE.

The admission rate to hospitals and death rate for disease for black employees were 127.75 and 4.30 per thousand, as compared with 379.36 and 4.89 for white employees. The noneffective rate for disease and injuries for black employees per thousand was 8.51 as compared with 20.11 for white employees.

The admission rate to hospitals and quarters for malaria was 44.93 per thousand for blacks, as compared with 132.16 for whites.

The total death rate for Americans was 5.79, while among the Europeans there were no deaths. The admission rate to hospitals for disease for the latter was 651.66, compared with 329.79 for Americans. The admission rate for malaria to hospitals and quarters was 190.73 for Europeans, as compared with 121.50 for Americans.

#### DEPORTATIONS.

There were 22 deportations accomplished during the month, 11 employees and 11 nonemployees; for disease, 16; and for injury, 1; and 5 Spanish nonemployees without disease.

#### CANAL ZONE.

According to a census taken by the police and fire division between December 22, 1914, and January 1, 1915, the population of the Canal Zone was 31,160, to which has been added the soldiers arriving for Canal Zone garrisons since that date, giving a population of 31,480 for January. Among the residents there were a total of 39 deaths; of these 36 deaths were from disease, giving a rate of 13.72 per thousand, as compared with 12.37 for the preceding month and 16.34 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 44, compared with 61 last month.

There were 56 births reported, giving a rate of 21.32 per thousand. Of these births 19 were of white and 37 of colored children. There

was 1 death of white and 12 deaths of colored children under 1 year of age, giving an infant mortality per thousand of 53 for white and 324 for colored children, with a general average of 232. The percentage of stillbirths to total births was 5.

#### PANAMA CITY.

The population of the city is 60,373, among whom there were a total of 169 deaths; of these, 166 deaths were from disease, giving a rate of 33 per thousand, as compared with 39 for the preceding month and 35.62 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 55, compared with 55 last month. The principal causes of death showing an increase as compared with December were: Pellagra, 7, as compared with 6 for the previous month; bronchitis, acute and chronic, 10, as against 4 for last month; nephritis, 14, as against 13 for December.

There were 302 births reported, giving a rate of 60.03 per thousand. The infant mortality was 245 per thousand. The percentage of stillbirths to total births was 4.

#### COLON.

The population of the city is 29,331, among whom there were 56 deaths; of these, 52 were from disease, giving a rate of 21.27 per thousand as compared with 21.69 for the preceding month and 18.39 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 52, compared with 42 last month.

The principal causes of death showing an increase as compared with December were: Broncho-pneumonia, 4, as against none for last month; diarrhea and enteritis (under 2 years), 6, as compared with 2 for the preceding month, and cancer, 1, as against none in December.

There were 114 births reported, giving a rate of 46.64 per thousand. The infant mortality was 132 per thousand. The percentage of stillbirths to total births was 7.

#### HOSPITAL DIVISION.

##### ANCON HOSPITAL.

During the month the average number of patients constantly in hospital was 515. The per capita cost of patients in hospital proper was \$1.84 gross and 84 net. The per capita cost of patients in the insane asylum was 53 cents.

##### BOARD OF HEALTH LABORATORY.

The following work, in addition to routine, was performed: The study of emulsions of crude carbolic acid was continued with special reference to their bactericidal action.

The emulsions as they are prepared with rosin soap are suspensions of minute particles which, when external influences are eliminated, must be considered to remain unchanged in composition regardless of the dilution. As they are formed when the proportion of water to the undiluted liquid is approximately 2 to 1, each particle must contain a relatively high proportion of toxic substances.

The emulsions behave as typical emulsoi colloids. The particles display an energetic Brownian movement; with a membrane permeable to electrolytes, they exert a definite osmotic pressure; and they also carry a negative charge of electricity, migrating to the positive pole under the influence of an electric current; when this charge of electricity carried by the particles is removed the emulsion is destroyed. The electrical nature of the particles is essential to their existence, and it is also a factor in the suppression of the specific chemical nature of the substances composing them. It also is very closely connected with the high bactericidal value of such emulsions.

Bacteria possess this same electrical property, but with this difference, the nature of the charge is very easily reversed. In an alkaline medium it is electronegative, and in an acid medium it is electropositive. In the presence of the particles of an emulsion of crude carbolic acid with soap, in an alkaline medium, the charge becomes positive and under the influence of the current the bacteria will travel to the negative pole. They become positive in the presence of the negative colloid and remove the charge from the particles of the emulsion. This removal causes the particles to break up, and the constituents of the emulsion are liberated around the bacteria in a concentration out of proportion to the degree of dilution.

During the month 5,000 smallpox vaccine points were prepared. Fifty points of this lot when tried out by the health officer of Panama on previously unvaccinated children gave 94 per cent of positive takes.

The preparation and collection of materials for the health department exhibits at San Francisco and Panama have been completed.

#### FARM FOR DISABLED.

The net per capita cost was \$0.537, as compared with \$0.536 for last month.

During the month work was continued on cleaning pasture and grounds for asylum buildings. Four chicken yards were completed and 150 concrete fence posts were made. The vegetable garden and nursery were cultivated.

#### INSANE DEPARTMENT.

During the month 14 patients were admitted, all of whom were first admissions with the exception of 2.

Twenty patients were discharged, including the following deportations: To Antigua, 1; Grenada, 1; Italy, 2; Fortune Islands, 1;

Montserrat, 1; San Salvador Island, 1; St. Lucia, 1; and the United States, 3.

The erection of the new asylum at Corozal is being pushed rapidly by the constructing quartermaster's department, and all of the buildings to accommodate the males, when they are transferred to that place on or about March 1, have been removed to the new site, and their interiors are being suitably rearranged.

The insane working force at the farm are still being employed on the grounds of the new site, dairy barn, and piggery.

In addition to the general sewing and mending being done at the institution sewing room, the female patients are daily engaged in preparing certain surgical dressings for use in the operating room and various wards of the hospital proper.

#### CHRONIC WARD.

There were 24.81 chronic and incurable patients constantly cared for during the month. The cost per patient per day was \$0.289.

Detailed statistics are shown in Table XIII.

#### COLON HOSPITAL.

The highest number of patients treated on any one day during the month was 48, the lowest number 28, the daily average being 36.74. The average number of employees constantly sick was 23.67. The average number of days' treatment per employee was 10.12. The per capita cost of patients was \$2.56 gross and \$1.60 net.

Detailed statistics are shown in Table XIV.

#### PALO SECO LEPER ASYLUM.

The number of patients under treatment at the end of the month was 49 as against 50 for the preceding month. The per capita cost per patient was \$0.81.

Detailed statistics are shown in Table XV.

#### SANTO TOMAS HOSPITAL.

During the month a total of 1,540 patients were treated, 28 less than for the preceding month. The daily average of patients in hospital was 467, as compared with 475 for December, and the total number of hospital days was 14,508, as compared with 14,728 for the preceding month.

Sixty-three deaths have occurred, with tuberculosis, pneumonia, and pellagra as the chief causes, in the order named.

The hospital has been caring for a great many pellagra cases recently as compared with former years, and upon investigating the records previous to 1911 it is found that this disease did not occur or went undiagnosed; the cases are of the severe type, with a rather heavy mortality.

Beriberi, diphtheria, and measles have been incident during the month. Beriberi is somewhat less than during the months

previously reported. Malaria has decreased perceptibly and the number of admissions for this cause is normal. The prevailing type is estivo-autumnal.

Detailed statistics are shown in Table XVI.

#### DISTRICT DISPENSARIES.

The dispensary having the highest admission rate for malaria was Corozal, with an average weekly percentage of 0.63; that having the lowest was Gatun, with a percentage of 0.06.

Detailed statistics are shown in Table IX.

#### SANITATION—CANAL ZONE.

The dry season is now well established, though the first week of the month was wet. With the change from wet to dry weather there has occurred the usual change of breeding places and the usual tendency for malaria to increase. However, the rate has kept lower than in any previous January and conditions are considered good.

Extensive ditch cleaning, grass cutting, and brush clearing are being carried out. Continued hydraulic filling between Corozal, Balboa, and Ancon has been watched carefully and any great production of anopheles prevented.

A sanitary gang has been kept at work in Mirazal district, and the district shows considerable improvement. Similar conditions obtain in numerous places on the west side of the canal, where, with the turning over of Culebra to the military during the coming month, there will be a considerable rural population of blacks that belong in no sanitary district. A sanitary gang for rural work will, therefore, be set to work on the west side.

The following communicable diseases were reported during the month:

Measles.....	3
Mumps.....	37
Cerebrospinal fever.....	1
Chicken pox.....	1
Tuberculosis.....	5
Whooping cough.....	23
Malarial fever.....	261
Dysentery.....	2

Detailed statistics are shown in Table XVII.

#### SANITATION—PANAMA.

##### COMMUNICABLE DISEASES.

*Diphtheria*.—Three cases were reported, one resulting in death. Of these three cases one was discovered to be a carrier.

*Measles*.—Three cases were reported. This is most inaccurate, as measles has been very prevalent throughout the city, as noted by the official vaccinators.

*Cerebrospinal fever.*—The only case of cerebrospinal fever reported proved to be a fatal one.

*Mumps.*—The prevalence of mumps throughout the city is still marked, and for the month there were 15 cases reported.

#### VACCINATIONS.

During the month 1,994 vaccinations were performed, bringing the total since April 1 to 14,727.

#### MOSQUITO, RAT, AND FLY WORK.

The antimalaria work in the vicinity of the exposition grounds was further extended to include the Bella Vista property, at which place residences are now under construction.

*Mosquitoes.*—An examination of the street cars at terminal points outside of the city revealed that anopheles mosquitoes enter and attack persons waiting in the cars. In the car barn after running hours an *A. tarsimaculata* was discovered hiding behind the controller box, where he was "tubed." This may account for a small number of cases in the section of the city far removed from the anopheles districts.

*Flies.*—During the month 302 deposits of fly larvae were destroyed, which is a slight improvement over the previous months, and the prevalence of flies in the city is not very marked.

*Rats.*—During the month 1,159 rats were caught and submitted to laboratory examination for plague, with negative results.

It was observed in a new rat-proof building that a large rat came from behind a counter, jumped upon the same, and from thence to the wall shelves. Continuing, he jumped several feet to a drop-light wire, up which he ran, thence along a 1-inch water pipe, where he disappeared on his way to the second floor. This illustrates the difficulty in preventing rats from entering a building, as in this case the rat had evidently come in from some stables adjacent, and made his hurried trip to the second floor in search of food. It is believed, however, that if this rat was sick with plague he would not undertake such a strenuous journey, exposing himself in his feebleness to the danger of being killed. His very cunning would make him so cautious as to remain near his burrow or harbor, even though his food was not immediately plentiful.

#### GARBAGE.

With the entrance of the dry season the garbage was more satisfactorily cremated at Dump No. 1, where great improvement has been made in the approaches. Only 120 quarts of flies were trapped on the public dump during the month.

#### BUILDINGS.

The repairing of buildings was continued and 49 permits for such work were granted during the month.

Detailed statistics are shown in Table XVII.

## SANITATION—COLON.

Physical examination of all school children both white and colored was made during the month and no defects were found which, in the opinion of the health officer, render them unfit to pursue their studies. Vaccinations were made in all cases where children were found not protected against smallpox by a recent scar. The result of these vaccinations was very satisfactory and certificates of successful "takes" were issued in about 95 per cent of the cases.

An agreement has been made with the supervisor of education of Colon Province for the introduction into the schools of the municipality of a course embracing catechisms on personal hygiene and elementary subjects relating to health education. Detailed plans for this work are being prepared.

Arrangements are being effected for a health education and publicity movement with special reference to antituberculosis measures.

The provisions of the new sanitary ordinance relating to fowls and animals were carried out during the month with very satisfactory results. The health officer has received a number of orders for the prescribed sanitary fowls coop, and several have already been installed for use of the merchants of the city.

Sixteen houses on the Mount Hope road were condemned for sanitary reasons and several houses have already been destroyed. The removal of these houses will immensely improve the health conditions of this district.

One bakery in Colon was condemned and temporarily closed in order to correct certain structural defects and unsanitary conditions.

An additional man for catching rats was put on and increased the catch about 80 per cent.

Of the 4,350 persons examined, 103 were vaccinated, and 4,247 were found protected.

The following cases of communicable disease were reported during the month:

Measles.....	12
Mumps.....	24
Whooping cough.....	6
Cerebrospinal meningitis.....	1
Tuberculosis.....	1

Detailed statistics are shown in Table XVII.

## QUARANTINE SERVICE.

The total apparent decrease for the month for coast towns and foreign ports was 1,218. The excess of emigration over immigration from foreign ports was 803 plus 139 transients for Pacific ports. There were 276 more departures for coast towns than arrivals. No quarantinable diseases have appeared at the ports during the month.

Detailed statistics are shown in Table XVIII.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES: DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE.

## ABSOLUTE NUMBERS.

Color.	Number of employees.	Admissions to hospitals.			Deaths.			Noneffective from sickness.	
		Total.	Dis-ease.	Ex-ternal causes.	Total.	Dis-ease.	Ex-ternal causes.	Days treated.	Con-stantly non-effic- tive.
<i>Jan., 1915.</i>									
White.....	4,903	183	155	28	2	2	.....	3,057	98.62
Colored.....	30,715	423	327	96	15	11	4	8,107	261.50
Total ...	35,618	606	482	124	17	13	4	11,164	360.12
<i>Dec., 1914.</i>									
White.....	5,513	165	138	27	1	.....	1	3,281	105.85
Colored.....	30,711	440	344	96	18	11	7	8,600	277.43
Total ...	36,224	605	482	123	19	11	8	11,881	383.28
<i>Jan., 1914.</i>									
White.....	7,406	468	394	74	4	3	1	8,264	266.58
Colored.....	41,922	872	627	245	29	17	12	14,966	482.78
Total ...	49,328	1,340	1,021	319	33	20	13	23,230	749.36

PROPORTIONATE NUMBERS.<sup>1</sup>

<i>Jan., 1915.</i>									
White.....	4,903	447.89	379.36	68.53	4.89	4.89	.....	.....	20.11
Colored.....	30,715	165.25	127.75	37.50	5.86	4.30	1.56	.....	8.51
Total ...	35,618	204.17	162.39	41.78	5.73	4.38	1.35	.....	10.11
<i>Dec., 1914.</i>									
White.....	5,513	359.15	300.38	58.77	2.18	.....	2.18	.....	19.20
Colored.....	30,711	171.92	134.41	37.51	7.03	4.30	2.73	.....	9.03
Total ...	36,224	200.42	159.67	40.75	6.29	3.64	2.65	.....	10.57
<i>Jan., 1914.</i>									
White.....	7,406	758.30	638.40	119.90	6.48	4.86	1.62	.....	36.00
Colored.....	41,922	249.61	179.48	70.13	8.30	4.87	3.43	.....	11.51
Total ...	49,328	325.98	248.38	77.60	8.03	4.87	3.16	.....	15.19

<sup>1</sup> Annual average per 1,000.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES: DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE—Continued.

PROPORTIONATE NUMBERS—Continued.

Place.	Population.	Deaths.			Annual average per 1,000.		
		Total.	Dis-ease.	Exter-nal causes.	Total.	Dis-ease.	Exter-nal causes.
<i>Jan., 1915.</i>							
Panama.....	60,373	169	166	3	33.59	33.00	0.59
Colon.....	29,331	56	52	4	22.91	21.27	1.64
Canal Zone.....	31,480	39	36	3	14.87	13.72	1.15
Total.....	121,184	264	254	10	26.14	25.15	.99
<i>Dec., 1914.</i>							
Panama.....	60,000	198	195	3	39.60	39.00	.60
Colon.....	29,331	57	53	4	23.33	21.69	1.64
Canal Zone.....	36,862	46	38	8	14.97	12.37	2.60
Total.....	126,193	301	286	15	28.62	27.19	1.43
<i>Jan., 1914.</i>							
Panama.....	47,172	147	140	7	37.40	35.62	1.78
Colon.....	20,232	31	31	.....	18.39	18.39	.....
Canal Zone.....	56,556	90	77	13	19.10	16.34	2.76
Total.....	123,960	268	248	20	25.94	24.01	1.93

TABLE II.—DEATHS BY AGE, COLOR AND SEX.

Age.	White.			Colored.			Yellow.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Under 1 year.....	7	2	9	52	41	93	.....	.....	.....	59	43	102
1 to 4 years.....	1	1	2	13	18	31	.....	.....	.....	14	19	33
5 to 10 years.....	1	1	1	5	6	11	.....	.....	.....	6	6	12
11 to 20 years.....	1	1	4	6	6	10	.....	.....	.....	4	7	11
21 to 30 years.....	2	2	4	26	12	38	.....	.....	.....	28	14	42
31 to 40 years.....	2	2	2	8	8	16	1	1	1	11	8	19
41 to 50 years.....	1	2	3	9	7	16	1	1	1	11	9	20
51 to 60 years.....	1	1	2	7	4	11	.....	.....	.....	8	5	13
61 to 70 years.....	2	1	3	1	1	2	.....	.....	.....	3	2	5
71 to 80 years.....	.....	.....	1	5	5	1	1	1	1	1	5	6
Not stated.....	.....	.....	1	.....	1	.....	.....	.....	.....	1	.....	1
Total.....	17	10	27	126	108	234	3	.....	3	146	118	264

TABLE III.—DEATHS BY NATIONALITY.

Nations.	Em- ployees.	Nonem- ployees.	Total.
Barbados.....		3	31
Curacao.....		1	1
China.....		3	3
Colombia.....		2	2
Demerara.....		1	1
Dominica.....		2	2
France.....		1	1
Grenada.....		2	2
Guadeloupe.....		1	1
Italy.....		1	1
Jamaica.....	10	32	42
Martinique.....	2	4	6
Mexico.....		1	1
Nicaragua.....		1	1
Panama.....		152	152
Spain.....		1	1
St. Kitts.....		2	2
St. Lucia.....		4	4
St. Thomas.....		2	2
St. Vincent.....		1	1
Trinidad.....		3	3
United States.....	2	2	4
<b>Total.....</b>	<b>17</b>	<b>247</b>	<b>264</b>

TABLE IV.—DEATH RATE AMONG AMERICANS ON THE Isthmus  
CONNECTED WITH THE PANAMA CANAL.

	Number of deaths.	Annual average per 1,000.
White employees from the United States (4,148):		
Disease.....	2	5.79
External causes.....		
All causes.....	2	5.79
White women and children from the United States (3,332):		
Disease.....		
External causes.....		
All causes.....		
White employees and their families from the United States (7,480):		
Disease.....	2	3.21
External causes.....		
All causes.....	2	3.21
Total number of Americans on the Canal Zone (11,545):		
Disease.....	2	2.08
External causes.....		
All causes.....	2	2.08

TABLE V.—CAUSES OF DEATHS OF EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD.

Causes of death.	White.	Colored.	Total.
<b>Disease:</b>			
Acute nephritis.....		1	1
Chronic nephritis.....		1	1
Cerebral hemorrhage.....		1	1
Diseases of the urethra.....		1	1
Encephalitis.....		1	1
Gangrene of the lungs.....		1	1
Lobar pneumonia.....		1	1
Malarial fever, estivoautumnal.....	2	1	3
Purulent infection and septicemia.....		1	1
Softening of the brain.....		1	1
Tuberculosis, disseminated.....		1	1
<b>External causes:</b>			
Accidental drowning.....		1	1
Electricity.....		1	1
Railroad traumatism.....		1	1
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....		1	1
<b>Total.....</b>	<b>2</b>	<b>15</b>	<b>17</b>

TABLE VI.—CAUSES OF DEATHS OF EMPLOYEES AND CIVIL POPULATION AND PLACES WHERE CHARGEABLE.

Disease.	Pana-ma.	Colon.	Canal Zone.	Total.
<i>General diseases.</i>				
Malarial fever:				
Estivoautumnal.....	1	1	4	6
Mixed.....			1	1
Clinical.....	3		1	4
Measles.....		1		1
Diphtheria and croup.....	1	1		2
Dysentery:				
Unclassified.....	2			2
Purulent infection and septicemia.....		1		1
Septicemia.....	2			2
Pyemia and septicemia, pneumococcic.....	1			1
Tetanus.....	1			1
Pellagra.....	7	1	2	10
Tuberculosis of the lungs.....	16	8	1	25
Abdominal tuberculosis.....			1	1
Disseminated tuberculosis.....			2	2
Syphilis, period not stated.....	1			1
Cancer and other malignant tumors of the stomach and liver.....	1			1
Cancer and other malignant tumors of the female genital organs.....		1		1
Cancer and other malignant tumors of the breast.....	1			1
Leuchoæmia, lymphatic.....	1		1	1
Alcoholism, chronic.....			1	2

TABLE VI.—CAUSES OF DEATHS OF EMPLOYEES AND CIVIL POPULATION AND PLACES WHERE CHARGEABLE—Continued.

Disease.	Pana-ma.	Colon.	Canal Zone.	Total.
<i>Diseases of the nervous system and of the organs of special sense.</i>				
Encephalitis.....			1	1
Pneumococcus meningitis.....	3			3
Cerebral hemorrhage, apoplexy.....	3		1	4
Softening of the brain.....	1			1
Paralysis without specified cause.....	2			2
Convulsions of infants (under 5 years of age).....	2		2	4
Diseases of the ears.....	1			1
<i>Diseases of the circulatory system.</i>				
Organic diseases of the heart.....		1	1	2
Angina pectoris.....	1			1
<i>Diseases of the respiratory system.</i>				
Acute bronchitis.....	8	7		15
Chronic bronchitis.....	2			2
Broncho-pneumonia.....	8	4		12
Pneumonia (unqualified).....	4		1	5
Lobar pneumonia.....	3		3	6
Gangrene of the lungs.....			1	1
Asthma.....	1			1
<i>Diseases of digestive system.</i>				
Other diseases of the stomach (cancer excepted).....	1			1
Acute gastritis.....	1			1
Chronic gastritis.....		1		1
Diarrhea and enteritis (under 2 years).....	25	6	3	34
Colitis.....	2			2
Do.....	1			1
Appendicitis and typhlitis.....	1			1
Hernia, intestinal obstructions.....	1		1	2
Other diseases of the intestines.....			1	1
Cirrhosis of the liver.....	1	1		2
Abscess of liver (unqualified).....	1			1
Simple peritonitis (nonpuerperal).....	2			2
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>				
Acute nephritis.....	5	2	1	8
Bright's disease (chronic nephritis).....	9	4		13
Diseases of the urethra, urinary abscess, etc.....		1		1
Stricture of the urethra, nonvenereal.....	1			1
<i>The puerperal state.</i>				
Puerperal hemorrhage.....		1		1
<i>Diseases of the skin and of the cellular tissue.</i>				
Acute abscess.....	1			1
Other diseases of the skin and annexa.....	1		1	2

TABLE VI.—CAUSES OF DEATHS OF EMPLOYEES AND CIVIL POPULATION AND PLACES WHERE CHARGEABLE—Continued.

Disease.	Pana-ma.	Colon.	Canal Zone.	Total.
<i>Malformations.</i>				
Congenital malformations (stillbirth not included).....	1			1
<i>Diseases of early infancy.</i>				
New-born child.....	1			1
Congenital debility, icterus, and sclerema.....	2			2
Premature birth.....	7		1	8
Congenital debility.....	2		3	5
Malnutrition.....	15	7	2	24
Other causes peculiar to early infancy (including various consequences of labor).....	1	1		2
<i>Old age.</i>				
Senility.....	1			1
<i>Affections produced by external causes.</i>				
Suicide by poisoning.....		1		1
Suicide by firearms.....		1		1
Accidental drowning.....			1	1
Traumatism by firearms.....			1	1
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....	1	1		2
Railroad traumatism.....	1		1	1
Electricity (lightning excepted).....		1		1
Homicide by firearms.....	1			1
<i>Ill-defined diseases.</i>				
Cause of death not specified or ill-defined.....	6			6
Total.....	169	56	39	264
Stillbirths.....	13	9	3	25
Grand total.....	182	65	42	289



TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN JANUARY,

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.		Deaths.		Admissions.		Deaths.					
	W.	W.	W.	W.	W.	W.	W.	W.	Soldiers.	Others.	Black.	Black.
<i>General diseases.</i>												
Malarial fever:												
Estivo-autumnal.....	11	4	47	2	1	25	6	8				
Tertian.....	2	1	7			13	2	3				
Mixed.....									1			1
Clinical.....	7	6	41			9	4	6				
Measles.....			1				3	5				
Whooping cough.....												1
Diphtheria and croup.....												
Influenza.....	4		1				1					1
Cholera nostras.....							1					
Dysentery.....									3	1		
Entemebic.....												
Bacillary.....			1							2		
Unclassified.....			2									2
Leprosy.....												
German measles.....							1					
Mumps.....	6	1	45				3	5	16			
Yaws.....												1
Malta fever.....			1									
Acute infectious jaundice (Weil's disease).....				1								
Purulent infection and septicemia.....						1						
Pellagra.....										4		3
Tuberculosis of the lungs.....				5					2	2		1
Abdominal tuberculosis.....												
Pott's disease.....								1				
Disseminated tuberculosis.....						1						1
Syphilis:												
Primary.....							1	1				
Secondary.....	1		4				1					1
Tertiary.....	1		7				1	1	3			
Period not stated.....		1							3			
Gonococcus infection.....							1					
Gonorrhea.....	1	1	3				26					
Gonorrhreal arthritis.....			1									
Gonorrhreal bubo.....		1					1					
Gonorrhreal orchitis and epididymitis.....	4	1	6				2					
Gonorrhreal ophthalmia.....			1							1		
Soft chancre.....	2	8					13		2			
Adenitis chancroidal.....		2					8					

THE HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF  
1915.

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN JANUARY,

Diseases.	Ancon Hospital.									
	Employees.					Nonemployees.				
	Admissions.		Deaths.		Black.	Admissions.		Deaths.		Black.
	W.		W.			W.		W.		
	Americans.	Europeans.	Americans.	Europeans.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>General diseases—Continued.</i>										
Cancer and other malignant tumors of the—										
Buccal cavity.....							2			
Stomach and liver.....	1									
Peritoneum, intestines, rectum.....										
Breast.....	1					1				
Skin.....		1								
Organs and of organs not specified.....		1					1			
Other tumors (tumors of the female genital organs excepted).....								1		
Acute articular rheumatism.....	1									
Chronic rheumatism and gout.....	1	5								
Exophthalmic goiter.....								1		
Leucæmia lymphatic.....								1		
Anemia secondary, cause not determined.....						2	1			
Other general diseases.....	2					3	2			
Alcoholism, acute.....										
<i>Diseases of the nervous system and of the organs of special sense.</i>										
Encephalitis.....			1		1					
Simple meningitis.....			1					1		
Cerebrospinal fever.....								1		
Other diseases of the spinal cord.....										
Cerebral hemorrhage, apoplexy.....			1		1					
Softening of the brain.....			1				2			
Paralysis without specified cause.....								1		
Other forms of mental alienation.....						1	3	6		
Dementia precox.....						1		2		
Hysteria.....						1				
Neuritis.....	1	1	5							
Neurasthenia.....							4			
Diseases of the eyes and their annexa.....	2	1	7			6	2	5		
Diseases of the ears.....	1					4	2	1		1

THE HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF  
1915—Continued.

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN JANUARY,

Diseases.	Ancon Hospital.									
	Employees.					Nonemployees.				
	Admissions.		Deaths.			Admissions.		Deaths.		
	W.	Americans.	W.	Americans.	Europeans.	W.	Soldiers.	W.	Soldiers.	Others.
<i>Diseases of the circulatory system.</i>										
Organic diseases of the heart.....	1		2			1		1		
Angina pectoris.....							1			1
Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....							1	1		
Hemorrhoids.....	1		2			3	1			
Diseases of the lymphatic system (lymphangitis, etc.).....							1	1		
Lymphadenitis (nonvenereal).....	2	1	5			1	3			
Hemorrhage; other diseases of the circulatory system.....						1				
<i>Diseases of the respiratory system.</i>										
Diseases of the nasal fossæ.....	1		1			2	2			
Adenoid vegetations.....								2		
Laryngitis.....							1			
Acute bronchitis.....	2		1			2	1			
Chronic bronchitis.....	2		2							
Broncho-pneumonia.....		2								
Lobar pneumonia.....		7				1		2	3	2
Pleurisy.....		6					1			
Empyema.....	1									
Pulmonary congestion, pulmonary apoplexy.....										
Gangrene of the lungs.....						1				
<i>Diseases of the digestive system.</i>										
Diseases of the mouth and annexa.....								1		
Diseases of the teeth and gums.....	1	1								
Diseases of the pharynx.....			1				2	1		
Pharyngitis.....							1			
Follicular tonsillitis.....	2		2			9	12	3		
Ulcer of the stomach.....							1			
Other diseases of the stomach (cancer excepted).....	1									
Acute gastritis.....										
Chronic gastritis.....	1						1			
Acute indigestion.....								2	1	
Diarrhea and enteritis (under 2 years).....							5	2		1
Colitis.....								1		

THE HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF  
1915—Continued.

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN JANUARY,

THE HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF  
1915—Continued.

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN JANUARY,

Diseases.	Ancon Hospital.							
	Employees.				Nonemployees.			
	Admissions.		Deaths.		Admissions.		Deaths.	
	W.	W.	W.	W.	W.	W.	W.	W.
<i>Nonvenereal diseases of the genito-urinary system and annexa—Con.</i>		Americans.	Europeans.	Americans.	Europeans.	Soldiers.	Others.	Black.
Metritis.....	1							1
Cysts and other tumors of the ovary.....								
Salpingitis and other diseases of the female genital organs.....						5	5	
Nonpuerperal diseases of the breast (cancer excepted).....							1	
<i>The puerperal state.</i>								
Normal labor.....						18	2	
Accidents of pregnancy.....						2	2	
Abortion.....							2	
Other accidents of labor.....						1		
Puerperal albuminuria and convulsions.....							2	
Eclampsia.....						1	1	
Puerperal diseases of the breast.....								
<i>Diseases of the skin and of the cellular tissue.</i>								
Gangrene.....				1		1	1	
Furuncle.....						1		
Carbuncle.....								
Acute abscess.....	2	1	8			5	2	
Phlegmon and cellulitis.....	2		1			1		
Ulcer of the skin.....	2	1	3				1	
Impetigo contagiosa.....							1	
Ingrowing nail.....						1		
Other diseases of the skin and annexa.....				1		4		2
<i>Diseases of the bones and of the organs of locomotion.</i>								
Diseases of the bones (tuberculosis excepted).....				2				
Mastoid abscess.....				1				
Periostitis.....							2	
Arthritis.....				4			1	
Amputations.....								
Other diseases of the organs of locomotion.....	1						1	

THE HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF  
1915—Continued.

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN JANUARY,

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	W.	Americans.	Europeans.	W.	Americans.	Europeans.	W.	Soldiers.	Others.	W.	Soldiers.	Others.
<i>Malformations.</i>												
Congenital malformations (still-birth not included).....									2			
<i>Diseases of early infancy.</i>												
Newborn child .....										20	2	
Premature birth.....										1	1	1
Congenital debility.....										1	1	1
Malnutrition.....										4		3
<i>Old age.</i>												
Senility.....												
<i>Affections produced by external causes.</i>												
Suicide by cutting or piercing instruments.....		1										
Poisoning by food.....	2											
Burns (conflagration excepted).....			3						1			
Traumatism by firearms.....				1						1	2	
Traumatism by cutting or piercing instruments.....	4	1	14						3	1	2	
Traumatism by fall.....	1		10						1	1	1	
Traumatism in mines and quarries.....				5								
Traumatism by machines.....	1		5									
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....				2					1			
Railroad traumatism.....				2					1			
Injuries by animals.....				1								
Effects of heat.....									1			
Fractures (cause not specified).....	1	1	2						3			
Dislocations.....	1											
Sprains.....		1							1			
Other external violence.....	9	2	35						5	2	1	
<i>Ill-defined diseases.</i>												
Ill-defined organic disease.....			4									
Cause of death not specified or ill defined.....				1								
Infections of undetermined origin.....				1					2	1	4	
No disease.....									15		3	22
Grand total.....	115	40	364	2	10	200	210	200	139	3	22	

THE HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF  
1915—Continued.

TABLE VIII.—CONSOLIDATED HOSPITAL REPORT—Continued.

[A=American; F=foreign; B=black.]

Hospitals.	Remaining Jan. 1.			Admitted.			Died.		
	A.	F.	B.	A.	F.	B.	A.	F.	B.
<i>Ancon Hospital.</i>									
Panama Canal employees.....	30	15	176	98	36	302	1	—	7
Panama Railroad employees.....	3	6	34	16	4	61	1	—	2
Panama pay patients.....	—	—	—	—	—	—	—	—	—
Other pay patients.....	124	23	45	315	61	85	1	2	13
Charity patients.....	14	2	40	23	7	45	—	—	8
Total.....	171	46	295	452	108	493	3	2	30
<i>Insane department.</i>									
Panama Canal employees.....	—	5	13	1	—	1	—	—	—
Panama Railroad employees.....	—	—	7	—	—	—	—	—	1
Panama pay patients.....	—	13	160	—	4	7	—	—	1
Other pay patients.....	6	—	2	—	—	—	2	—	—
Charity patients.....	6	4	58	—	—	—	—	—	—
Total.....	12	22	240	1	4	10	—	—	2
Grand total.....	183	68	535	453	112	503	3	2	32
<i>COROZAL FARM.</i>									
Panama Canal employees.....	—	8	35	—	—	1	2	—	—
<i>CHRONIC WARD.</i>									
Charity patients.....	—	—	28	—	—	—	5	—	—
<i>Colon Hospital.</i>									
Panama Canal employees.....	4	1	11	16	8	44	—	—	2
Panama Railroad employees.....	2	1	12	4	—	15	—	—	—
Panama pay patients.....	—	1	1	—	—	8	—	—	—
Other pay patients.....	1	7	1	13	10	12	—	—	—
Charity patients.....	1	—	—	2	7	9	—	—	—
Total.....	8	10	25	35	25	88	—	—	2
<i>Palo Seco Leper Asylum.</i>									
Panama pay patients.....	—	2	30	—	—	—	—	—	1
Charity patients.....	—	2	16	—	—	—	—	—	—
Total.....	—	4	46	—	—	—	—	—	1
<i>Grand total.</i>									
Panama Canal employees.....	34	29	235	115	45	349	1	—	9
Panama Railroad employees.....	5	7	53	20	4	76	1	—	3
Panama pay patients.....	—	16	191	—	4	15	—	—	2
Other pay patients.....	131	30	48	328	71	97	1	2	13
Charity patients.....	21	8	142	25	14	61	—	—	8
Total.....	191	90	669	488	138	598	3	2	35

TABLE VIII.—CONSOLIDATED HOSPITAL REPORT—Continued.

Hospitals.	Dis- charged.			Trans- ferred.			Remain- ing Jan. 31.			Average number con- stantly sick.			
										White.		B.	Total.
	A. <sup>1</sup>	F.	B.	A.	F.	B.	A.	F.	B.	A.	F.		
<i>Ancon Hospital.</i>													
Panama Canal em- ployees.....	98	35	285	1	2	2	28	14	184	32.03	15.97	180.77	228.77
Panama Railroad em- ployees.....	13	3	53	—	—	1	5	7	39	5.58	5.90	31.77	43.25
Panama pay patients.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Other pay patients.....	325	60	75	—	—	—	113	22	42	113.58	25.33	44.51	183.42
Charity patients.....	29	9	35	—	—	2	8	—	40	14.48	2.32	42.78	59.58
Total.....	465	107	448	1	2	5	154	43	305	165.67	49.52	299.83	515.02
<i>Insane Department.</i>													
Panama Canal em- ployees.....	1	—	1	—	—	—	—	5	13	.23	5.00	12.71	17.94
Panama Railroad em- ployees.....	—	—	—	—	—	—	1	—	5	—	—	5.97	5.97
Panama pay patients.....	2	3	—	—	—	—	1	—	15	162	—	13.84	161.84
Other pay patients.....	4	1	1	—	—	—	1	1	—	—	3.90	—	1.38
Charity patients.....	—	1	—	—	—	—	3	6	3	57	6.00	3.06	55.62
Total.....	5	3	5	1	—	6	7	23	237	10.13	21.90	237.52	269.55
Grand total.....	470	110	453	2	2	11	161	66	542	175.80	71.42	537.35	784.57
<i>COROZAL FARM.</i>													
Panama Canal em- ployees.....	—	2	1	—	—	—	—	7	36	—	7.74	35.58	43.32
<i>CHRONIC WARD.</i>													
Charity patients.....	—	—	7	—	—	—	—	—	26	—	—	24.81	24.81
<i>Colon Hospital.</i>													
Panama Canal em- ployees.....	18	7	32	—	2	6	2	—	15	4.00	.61	12.80	17.41
Panama Railroad em- ployees.....	4	—	20	—	1	6	2	—	1	1.93	.32	4.00	6.25
Panama pay patients.....	—	1	3	—	—	5	—	—	1	—	—	.51	.51
Other pay patients.....	8	7	7	3	5	—	3	5	6	3.87	3.93	3.03	10.83
Charity patients.....	2	5	6	—	1	3	1	1	—	.70	.67	.32	1.69
Total.....	32	20	68	3	9	20	8	6	23	10.50	5.53	20.66	36.69
<i>Palo Seco Leper Asylum.</i>													
Panama pay patients.....	—	—	—	—	—	—	—	2	29	—	2.00	29.64	31.64
Charity patients.....	—	—	—	—	—	—	—	2	16	—	2.00	16.00	18.00
Total.....	—	—	—	—	—	—	—	4	45	—	4.00	45.64	49.64

<sup>1</sup> White.

TABLE VIII.—CONSOLIDATED HOSPITAL REPORT—Continued.

Hospitals.	Discharged.			Transferred.			Remaining Jan. 31.			Average number constantly sick.			
										White.		B.	Total.
	A.	F.	B.	A.	F.	B.	A.	F.	B.	A.	F.		
<i>Grand total.</i>													
Panama Canal employees.....	117	44	319	1	4	8	30	26	248	36.26	29.32	241.86	307.44
Panama Railroad employees.....	17	3	73	—	1	8	7	7	45	7.51	6.22	41.74	55.47
Panama pay patients.....	—	3	6	—	—	6	—	17	192	—	13.84	162.35	176.19
Other pay patients.....	337	67	83	4	5	1	117	27	48	121.35	29.26	48.92	199.53
Charity patients.....	31	15	48	—	1	8	15	6	139	21.18	8.05	139.53	168.76
Total.....	502	132	529	5	11	31	169	83	672	186.30	86.69	634.40	907.39

Number of employees remaining in hospitals:

White.....	70
Colored.....	293
Total.....	363

TABLE IX.—CONSOLIDATED DISPENSARY REPORT.

EMPLOYEES TREATED IN QUARTERS, AND ALL CASES TREATED BUT NOT EXCUSED.

Stations.	Employees treated in quarters.												Days lost.		
	Remaining Jan. 1.		Admitted.		Died.		Discharged.		Transferred.		Remaining Jan. 31.		Days lost.		
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	Total.
Naos Island.....	—	—	1	—	—	—	1	—	—	—	—	—	1	—	1
Ancon.....	5	—	123	—	—	—	122	—	1	—	5	—	307	—	307
Balboa.....	—	—	39	11	—	—	28	4	9	6	2	1	93	38	131
Corozal.....	2	—	42	13	—	—	41	13	3	—	—	—	82	19	101
Pedro Miguel.....	—	—	14	—	—	—	12	—	1	—	1	—	36	—	36
Paraiso.....	2	—	15	—	—	—	11	—	6	—	—	—	41	—	41
Culebra.....	—	1	16	15	—	—	15	12	—	1	1	3	29	32	61
Gamboa.....	—	—	1	—	—	—	1	—	—	—	—	—	2	—	2
Gatun.....	2	—	17	—	—	—	18	—	1	—	—	—	49	—	49
Colon.....	4	14	68	57	—	—	66	65	—	—	6	6	199	329	528
Total..	15	15	336	96	—	—	315	94	21	7	15	10	839	418	1,257

TABLE IX.—CONSOLIDATED DISPENSARY REPORT—Continued.  
EMPLOYEES TREATED IN QUARTERS, AND ALL CASES TREATED BUT NOT EXCUSED—Continued.

Stations.	All cases treated but not excused.									
	Employees.			Nonemployees.			Total.			
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	
Naos Island.....	137	1,347	1,484				137	1,347	1,484	
Ancon.....	2,353	2,935	5,288	1,932	1,607	3,539	4,285	4,542	8,827	
Balboa.....	3,432	3,711	7,143	358	267	625	3,790	3,978	7,768	
Corozal.....	1,472	1,640	3,112	1,017	177	1,194	2,489	1,817	4,306	
Pedro Miguel.....	687	969	1,656	654	174	828	1,341	1,143	2,484	
Paraiso.....	1,302	2,294	3,596	649	741	1,390	1,951	3,035	4,986	
Culebra.....	320	340	660	310	360	670	630	700	1,330	
Gamboa.....	73	161	234	12	335	347	85	496	581	
Gatun.....	678	1,210	1,888	1,106	596	1,702	1,784	1,806	3,590	
Colon.....	792	1,602	2,394	830	827	1,657	1,622	2,429	4,051	
Total.....	11,246	16,209	27,455	6,868	5,084	11,952	18,114	21,293	39,407	

## CONSOLIDATED ADMISSION REPORT.

	White.	Colored.	Total.
Total admissions to hospitals, excluding Corozal			
Farm and chronic ward.....	625	591	1,216
Total admissions of employees to quarters.....	336	96	432
Total.....	961	687	1,648
Less number of patients transferred between hospitals, and from quarters to hospitals, whose admissions are duplicated in above figures.....	37	38	75
Net admissions to hospitals and quarters.....	924	649	1,573
Net admissions of employees to hospitals and quarters.....	492	496	988
Annual average per 1,000 of admissions of employees to hospitals and quarters.....	1,204.16	193.78	332.87

## CONTAGIOUS AND INFECTIOUS DISEASES REPORTED.

Diseases reported by health officers and district physicians.	Health office, Panama.	Health office, Colon.	Canal Zone.	Total.
Measles.....	3	12	3	18
Mumps.....	15	24	37	76
Cerebrospinal fever.....	1	1	1	3
Chicken pox (varicella).....			1	1
Diphtheria (croup).....	3			3
Tuberculosis (of any organ).....	1		5	6
Whooping cough.....		6	23	29
<i>Diseases reported only by district physicians.</i>				
Malarial fever.....			261	261
Dysentery.....			2	2

TABLE X.—AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS AND QUARTERS.

	White.	Colored.	Total.
<b>Hospitals:</b>			
Ancon Hospital.....	64.71	231.23	295.94
Colon Hospital.....	6.86	16.80	23.66
<b>Total.....</b>	<b>71.57</b>	<b>248.03</b>	<b>319.60</b>
<b>Quarters:</b>			
Naos Island.....	.03	.....	.03
Ancon.....	9.90	.....	9.90
Balboa.....	3.00	1.22	4.22
Corozal.....	2.65	.61	3.26
Pedro Miguel.....	1.16	.....	1.16
Paraiso.....	1.32	.....	1.32
Culebra.....	.93	1.03	1.96
Gatun.....	1.58	.....	1.58
Colon.....	6.42	10.61	17.03
Gamboa.....	.06	.....	.06
<b>Total.....</b>	<b>27.05</b>	<b>13.47</b>	<b>40.52</b>
	Hospitals.	Quarters.	Total.
<b>Average number of employees constantly sick:</b>			
White.....	71.57	27.05	98.62
Colored.....	248.03	13.47	261.50
<b>Total.....</b>	<b>319.60</b>	<b>40.52</b>	<b>360.12</b>
<b>Average number of employees constantly sick per 1,000:</b>			
White.....	14.59	5.52	20.11
Colored.....	8.07	.44	8.51
<b>Total.....</b>	<b>8.97</b>	<b>1.14</b>	<b>10.11</b>

TABLE XI.—AVERAGE LENGTH OF STAY IN HOSPITALS OR QUARTERS FOR EACH ADMISSION OF SICK EMPLOYEES.

	White.	Colored.	Total.
<b>Hospitals:</b>			
Ancon Hospital.....	20.88	12.31	18.86
Colon Hospital.....	8.62	10.84	10.12
<b>Quarters:</b>			
Naos Island.....	1.00	.....	1.00
Ancon.....	2.92	.....	2.92
Balboa.....	1.97	3.60	2.32
Corozal.....	1.95	1.46	1.84
Pedro Miguel.....	2.77	.....	2.77
Paraiso.....	2.82	.....	2.82
Culebra.....	1.93	2.62	2.25
Gatun.....	2.26	.....	2.26
Colon.....	3.50	5.50	4.60
Gamboa.....	2.00	.....	2.00

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH.

	December, 1914.	November, 1914.	December, 1913.
<b>Administration:</b>			
Chief health officer.....	\$717.74	\$591.98	\$4,101.16
<b>Hospital division:</b>			
Ancon Hospital.....	37,833.44	31,567.27	42,965.75
Corozal Farm.....	1,141.28	1,039.86	1,124.28
Chronic ward.....	269.02	276.74	216.59
Colon Hospital.....	3,269.14	2,983.79	3,554.29
Taboga Sanitarium.....			2,351.56
Palo Seco Leper Asylum.....	1,425.55	1,537.55	1,089.72
Santo Tomas Hospital.....	820.00	837.00	779.16
Medical storehouse.....	664.66	602.68	719.48
Construction and repair to buildings.....	15,431.05	26,931.46	2,438.30
<b>Total.....</b>	<b>60,854.14</b>	<b>65,776.35</b>	<b>55,239.13</b>
<b>Dispensaries:</b>			
Naos Island.....	47.67	59.17	247.52
Balboa.....	929.16	953.50	1,091.60
Tivoli.....			677.07
Corozal.....	846.37	752.04	1,043.81
Pedro Miguel.....	429.14	398.70	472.05
Paraiso.....	571.54	478.00	521.38
Culebra.....	282.48	440.66	795.85
Empire.....			1,015.78
Las Cascadas.....			268.50
Gamboa.....	120.08	122.87	121.21
Gatun.....	493.64	638.78	1,316.83
Cristobal.....			1,016.07
Margarita Point.....	113.38	114.91	118.53
Toro Point.....	67.67		370.94
Porto Bello.....			353.14
<b>Total.....</b>	<b>3,901.13</b>	<b>3,958.63</b>	<b>9,430.28</b>
<b>Sanitary division:</b>			
General inspector.....	50.00	50.00	700.00
Health office, Panama.....	2,902.52	2,692.09	2,966.59
Street cleaning.....	4,619.70	4,377.90	4,071.59
Health office, Colon.....	4,168.72	2,119.00	2,558.42
Street cleaning.....	1,803.07	1,753.94	1,215.79
<b>Zone sanitation—</b>			
Ancon.....	1,980.37	1,679.49	1,528.15
Balboa.....	974.68	1,126.86	1,742.58
Corozal.....	1,610.67	1,110.87	1,513.52
Miraflores.....			819.56
Pedro Miguel.....	959.80	799.91	1,738.15
Paraiso.....	785.97	796.79	1,903.32
Culebra.....	846.42	858.18	1,232.73
Empire.....			2,702.66
Las Cascadas.....			790.75
Frijoles.....	123.23	102.00	65.00
Gatun.....	1,547.21	1,392.41	3,179.48
Cristobal and Mount Hope.....	1,613.61	1,446.25	2,527.60
Toro Point.....			75.77
Porto Bello.....			241.55
<b>Total.....</b>	<b>23,885.97</b>	<b>20,305.69</b>	<b>31,573.21</b>
<b>Quarantine division.....</b>	<b>3,980.72</b>	<b>3,562.04</b>	<b>4,512.32</b>

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH—  
Continued.

	December, 1914.	November, 1914.	December, 1913.
<i>Recapitulation.</i>			
Chief health office.....	\$717.74	\$591.98	\$4,101.16
Hospital division.....	60,854.14	65,776.35	55,239.13
Dispensaries.....	3,901.13	3,958.63	9,430.28
Sanitary division.....	23,885.97	20,305.69	30,873.21
Quarantine division.....	3,980.72	3,562.04	4,512.32
Grand total.....	93,339.70	94,194.69	104,156.10

TABLE XIII.—ANCON HOSPITAL.  
REPORT OF NATIONALITY OF PATIENTS TREATED.

	Total number treated.	Americans.		Other nations.	
		White.	Black.	White.	Black.
<b>Hospital:</b>					
Class—					
Panama Canal employees.....	657	126	2	51	478
Panama Railroad employees.....	124	19	—	10	95
Panama Government pay cases.....					
Other pay cases.....	653	439	—	84	130
Charity patients.....	131	37	—	9	85
Total.....	1,565	621	2	154	788
<b>Insane asylum:</b>					
Panama Canal employees.....	20	1	—	5	14
Panama Railroad employees.....	7	—	—	—	7
Panama Government pay cases.....	184	—	—	17	167
Other pay cases.....	8	6	—	—	2
Charity patients.....	70	6	—	4	60
Total.....	289	13	—	26	250
Grand total.....	1,854	634	2	180	1,038
Soldiers.....	294	294	—	—	—
Chronics.....	33	—	—	—	33
Corozal farm.....	46	—	—	9	37

TABLE XIII.—ANCON HOSPITAL—Continued.

## REPORT OF DAYS LOST IN HOSPITAL.

	Total.	Americans.	Other white.	Black.
<b>Hospital:</b>				
Class—				
Panama Canal employees.....	7,092	993	495	5,604
Panama Railroad employees.....	1,341	173	183	985
Panama Government pay cases.....				
Other pay cases.....	5,686	3,521	785	1,380
Charity patients.....	1,847	449	72	1,326
<b>Total.....</b>	<b>15,966</b>	<b>5,136</b>	<b>1,535</b>	<b>9,228</b>
<b>Insane asylum:</b>				
Panama Canal employees.....	556	7	155	394
Panama Railroad employees.....	185	—	—	185
Panama Government pay cases.....	5,446	—	429	5,017
Other pay cases.....	164	121	—	42
Charity patients.....	2,005	186	95	1,724
<b>Total.....</b>	<b>8,356</b>	<b>314</b>	<b>679</b>	<b>7,363</b>
<b>Grand total.....</b>	<b>24,322</b>	<b>5,450</b>	<b>2,214</b>	<b>16,658</b>
Soldiers.....	2,603	2,603	—	—
Chronics.....	769	—	—	769
Corozal farm.....	1,343	—	240	1,103

Average cost of subsistence per patient per day, \$0.249.

## WARD LABORATORY REPORT.

Blood examinations (total number).....	796
Estivautumnal.....	120
Mixed.....	3
Tertian.....	30
Differential counts.....	47
Haemoglobin estimations.....	74
Leucocyte counts.....	96
Red blood counts.....	11
Stool examinations (total number).....	551
Ameba.....	3
Ascaris lumbricooides.....	11
Balantidium coli.....	1
Cercomonas intestinalis.....	1
Ciliated monads.....	16
Entameba (hystolytica and tetragena).....	7
Guaiac tests.....	15
Pus and blood.....	74
Strongloides.....	27
Trichocephalus dispar.....	42
Uncinaria ova.....	80
Urine examinations (total number).....	1,407
Albumen.....	400
Bile.....	28
Casts.....	256
Epithelia.....	122
Guaiac tests.....	20
Hemin crystals.....	3
Indicon.....	34
Pus and blood.....	304
Sugar (positive, 4; negative, 4).....	8
Trichomonas vaginalis.....	1
Sputum examinations (total number).....	176
Positive for tubercle bacilli.....	13

Smear examinations (total number).....	17
Urethral.....	7
Eye (positive for gonococci).....	1
Spinal fluid.....	2

## REPORT OF SURGICAL OPERATIONS.

	Number.	Died.
<b>Amputations:</b>		
Leg.....	1	
Foot.....	1	
Digits, multiple.....	2	
<b>Operations on bones:</b>		
Ostectomy.....	2	
Wiring of fractures—		
Simple.....	3	
Compound.....	1	
<b>Adenectomy:</b>		
Cervical.....	1	
Inguinal—		
Single.....	30	
Double.....	6	
<b>Herniotomy:</b>		
Inguinal—		
Single.....	6	
Double.....	2	
<b>Genito urinary tract:</b>		
Hydrocele, single, radical cure.....	5	
Epididymotomy.....	9	
Amputation of scrotum.....	1	
Curetage uteri.....	8	
Trachelorrhaphy.....	2	
<b>Obstetrical:</b>		
Low forceps.....	2	
Perineorrhaphy.....	2	
<b>Thorax:</b>		
Excision of breast.....	1	
Excision of breast and axilla.....	1	1
<b>Rectum:</b>		
Hermorrhoids, radical cure.....	7	
Fistula in anus, excision of.....	3	
<b>General:</b>		
Thyroidectomy.....	1	
Tenorrhaphy.....	2	
Excision of surface neoplasms.....	4	
Plastic operations, for effects of disease.....	1	
Skin graft.....	6	
<b>Laparotomy:</b>		
For tuberculous peritonitis.....	2	1
Exploratory.....	1	
Gastro-enterostomy.....	1	
Appendectomy.....	16	
Cholecystostomy.....	1	
Abscess of liver, laparo-hepatotomy for.....	1	
Supravaginal hystérectomy.....	5	
Hysteromyomectomy.....	1	
Suspensio-uteri.....	2	
For trauma—		
General peritonitis.....	1	
Minor operations, various.....	90	
Mayo bunion.....	3	
Arthroplasty.....	2	
<b>Total</b> .....	236	2

## REPORT OF OPERATIONS, EYE, EAR, AND NOSE CLINIC.

Eye:				
Cataract extraction.....				2
Iridectomy.....				2
Advancement internal rectus.....				1
Tenotomy.....				1
Enucleation.....				1
Ptyrgium transplantation.....				1
Minor eye operations.....				11
				19
Ear:				
Mastoidectomy.....				2
Drainage brain abscess.....				1
Minor ear operations.....				6
				9
Nose and throat:				
Excision of endothelioma of nose.....				1
Adenoidectomy.....				13
Tonsillectomy.....				19
Turbinectomy.....				5
Submucous resection.....				4
Frontal sinusotomy (Killiam).....				1
Removal nasal polypi.....				3
Minor nose and throat operations.....				7
				53
Total.....				81
Total number of refractions.....				289

## OUT-PATIENT DEPARTMENT.

Clinic.	Total visits.	New cases.	Pay cases.	Pre-scriptions.
Medical clinic.....	367	309	50	260
Surgical clinic.....	281	233	36	58
Eye and ear clinic.....	713	236	49	355
Total.....	1,361	778	135	673

## REPORT OF BOARD OF HEALTH LABORATORY.

Bacteriological examinations of—		Chemical analysis of—	
Blood cultures.....	8	Hospital dairy milk.....	1
Diphtheria cultures.....	34	Mother's milk.....	7
Urine cultures.....	21	Milk from private dairies supplying the cities of Panama	
Stool cultures.....	13	and Colon.....	10
Autopsies.....	9	Stomach contents.....	2
Oysters.....	1	Sugar-cane juice.....	1
Pathological fluids, exudates, etc.....	8	Articles of clothing.....	1
Sputum.....	1	Commercial product "Pypo".....	1
Wassermann reactions.....	216	Quinine hydrochloride.....	1
Agglutination reactions.....	1	Stool.....	1
Autogenous vaccines prepared.....	2	Examination of urine of employees.....	563
Leper suspect.....	1	Surgical tissues and neoplasms reported.....	24
Preparations of Salvarzianized serum for intraspinous treatment.....	3	Autopsies performed (3 medico-legal).....	28
Vaccine points manufactured.....	5,238		

Bodies embalmed.....	3	Rats examined:
Animals examined or under ob- servation.....	7	Mus musculus .....
Pathological tissues prepared, paraffin.....	451	Mus norvegicus.....
Pathological tissues prepared, frozen.....	7	Mus alexandrinus.....
		Mus rattus.....
		Examination of blood of employ- ees for malaria.....
		9

## OPERATION OF HOSPITAL FARM, COROZAL.

## Expenditures:

Supervision and office.....	\$200.00
Labor.....	606.78
Subsistence of labor.....	281.49
Quartermaster team service.....	104.43
Ancon Hospital services.....	46.49
Electric lights.....	3.90
Ice.....	.90
	\$1,243.99

## Receipts:

Produce supplied local buyer, commissary department..... 243.34

18,437 okras, 789 pounds papayas, 1,240 pounds yams, 438  
pounds yucca, 28 pounds sweet peppers, 75½ dozen eggs,  
34½ dozen roses, 2 settings eggs, 8 heads lettuce, 89 bunches  
bananas.

Produce supplied Ancon Hospital..... 120.65

11,800 okras.....	\$54.28
206 bunches spinach.....	3.79
272 pounds pork.....	38.08
60 pounds lettuce.....	3.00
150 pounds yams.....	4.50
100 pounds yucca.....	2.00
30 guinea pigs.....	15.00

Produce, etc., sold to private parties..... 157.87

60 loads of grass.....	60.00
2½ dozen roses.....	11.25
2½ dozen eggs.....	1.40
2 settings of eggs.....	3.00
20 bunches of bananas.....	5.00
165 pounds yams.....	4.95
9 ferns.....	4.50
3 palms and 1 rosebush.....	1.75
1 burial permit.....	2.00
28 ears corn.....	.42
Pasturage.....	63.60

Total receipts..... 521.76

Net expenditures..... \$722.23

Number of days treatment furnished..... 1,343

Net cost per patient per day..... \$0.53785

Work performed: Cleaning pasture and grounds for asylum buildings; completed four chicken yards; made about 150 concrete fence posts; cultivated vegetable garden and nursery.

## STATEMENT OF DEATHS, COMMITMENTS AND DISCHARGES, INSANE ASYLUM.

*Commitments.*

	Male.	Female.
From Canal Zone on first commitment.....	1	3
From Canal Zone on second commitment.....	1	.....
From Panama Government on first commitment.....	4	6
From Panama Government on third commitment.....	.....	1
Total.....	8	7

Grand total, 15.

<sup>1</sup> One returned from hospital.*Discharges.*

Nationality.	Well.		Improved.		Unimproved.	
	Male.	Female.	Male.	Female.	Male.	Female.
Antigua.....						1 1
Colombia.....					1	.....
Fortune Island.....					1 1	.....
Grenada.....						1 1
Italy.....					1 2	.....
Jamaica.....		2				
Montserrat.....	1	.....				1 1
Peru.....	1	.....				.....
San Salvador Island.....					1 1	.....
Spain.....				1		
St. Lucia.....					0	1 1
United States Army.....	2 3	.....			2 3	.....
Total.....	5	2	.....	1	8	4

Grand total, 20.

<sup>1</sup> Deported.<sup>2</sup> One transferred to hospital.*Deaths.*

Physical diagnosis.	Mental diagnosis.	
	Dementia præcox.	Psychoses accompanying brain or other nervous diseases (cerebral syphilis).
Chronic nephritis.....	1 male.....	
Dysentery, unclassified.....		1 male.

Grand total, 2.

TABLE XIV.—COLON HOSPITAL.

## NATIONALITY OF PATIENTS.

	American white.	Foreign white.	Black.	Total.
Panama Canal employees.....	20	9	55	84
Panama Railroad employees.....	6	1	27	34
Panama pay.....		1	9	10
Other pay.....	14	17	13	44
Charity cases.....	3	7	9	19
Total.....	43	35	113	191

Cost of subsistence per patient per day, \$0.35.

## LABORATORY REPORT.

Blood examinations.....	77
Estivo-autumnal.....	7
Tertian.....	6
White blood counts.....	6
Hæmaglobin estimations.....	5
Stool examinations.....	9
Ascaris.....	1
Uncinaria.....	1
Urine examinations.....	112
Albumen.....	23
Casts.....	6
Sugar.....	11
Sputum examinations.....	8
Positive for tubercle bacilli.....	1

## SURGICAL OPERATIONS.

Amputations:	
Shoulder.....	1
Forearm.....	1
Digits, single.....	3
Herniotomy:	
Inguinal, single.....	3
Inguinal, double.....	1
Genito-urinary tract:	
Urethrotomy, internal.....	2
Urethrotomy, external.....	1
Hydrocele, single, radical cure.....	2
Epididiotomy.....	1
Curetage, uterus.....	4
Obstetrical: High forceps.....	1
Rectum: Hemorrhoids, radical cure.....	3
General:	
Varicose veins, excision of.....	1
Arterial anastomosis.....	1
Stab wound of soft parts, operation for.....	1
Plastic operation for effects of disease.....	1
Laparotomy:	
Appendectomy.....	2
Appendicostomy.....	1
Minor operations, various.....	33

TABLE XV.—PALO SECO LEPER ASYLUM.

## NATIONALITY OF PATIENTS.

	No. treated.		Americans.		Other nations	
	White.	Black.	White.	Black.	White.	Black.
Panama Canal employees.....						
Panama Railroad employees.....						
Pay cases.....	2	30			2	30
Charity cases.....	2	16			2	16
	4	46			4	46

Cost of subsistence per patient per day, 22 cents.

TABLE XVI.—SANTO TOMAS HOSPITAL.

Class.	Remaining Jan. 1.	Admit- ted.	Dis- charged.	Died.	Remaining Jan. 31.
Pay cases.....	50	106	117	5	34
Charity cases.....	445	939	905	58	421
Total.....	495	1,045	1,022	63	455

Average number of patients constantly sick.....	467
Total number of days' treatment.....	14,503
Average number of days' treatment per patient.....	9
Cost of subsistence, per patient, per day.....	\$0.28

## NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		White.	Colored.	White.	Colored.
Pay cases.....	156	8		59	89
Charity cases.....	1,384	8		164	1,212
Total.....	1,540	16		223	1,301

## DISPENSARY REPORT.

Class.	White.	Colored.	Total.
Natives.....	34	450	484
Foreigners.....	51	460	511
Total.....	85	910	995

## DISEASES TREATED.

Malaria.....	160
Measles.....	2
Diphtheria and croup.....	2
Influenza.....	15
Dysentery.....	10
Leprosy.....	1
Other epidemic diseases.....	16
Purulent infection and septicemia.....	15
Tetanus.....	2
Pellagra.....	11
Beriberi.....	5
Tuberculosis of the lungs.....	30
Tuberculosis of other organs.....	2
Syphilis.....	21
Gonorrhea.....	33
Soft chancre.....	22
Cancer and other malignant tumors of the stomach and liver.....	1
Cancer and other malignant tumors of the skin.....	1
Cancer and other malignant tumors of other organs and of organs not specified.....	1
Other tumors (tumors of the female genital organs excepted).....	3
Acute articular rheumatism.....	14
Alcoholism (acute or chronic).....	9
Simple meningitis.....	1
Other diseases of the spinal cord.....	1
Paralysis without specified cause.....	1
Other forms of mental alienation.....	4
Epilepsy.....	1
Other diseases of the nervous system.....	9
Diseases of the eyes and their annexa.....	3
Acute endocarditis.....	1
Organic disease of the heart.....	20
Diseases of the arteries, atheroma, aneurysm, etc.....	4
Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....	5
Diseases of the lymphatic system (lymphangitis, etc.).....	19
Hemorrhage; other diseases of the circulatory system.....	1
Diseases of the nasal fossæ.....	2
Chronic bronchitis.....	25
Pneumonia (unqualified).....	10
Pleurisy.....	3
Asthma.....	4
Diseases of the mouth and annexa.....	2
Diseases of the pharynx.....	5
Other diseases of the stomach (cancer excepted).....	2
Diarrhea and enteritis (two years and over).....	22
Ankylostomiasis.....	6
Appendicitis and typhlitis.....	6
Hernia, intestinal obstructions.....	7
Other diseases of the intestines.....	36
Cirrhosis of the liver.....	3
Biliary calculi.....	2
Other diseases of the liver.....	3
Simple peritonitis (nonpuerperal).....	1
Acute nephritis.....	20
Diseases of the bladder.....	10
Nonvenereal diseases of the male genital organs.....	8
Uterine hemorrhage (nonpuerperal).....	2
Other diseases of the uterus.....	10
Cysts and other tumors of the ovary.....	1
Salpingitis and other diseases of the female genital organs.....	11
Normal labor.....	122
Accidents of pregnancy.....	25
Other accidents of labor.....	1
Puerperal septicemia.....	3
Gangrene.....	2
Acute abscess.....	14
Other skin diseases of the skin and annexa.....	49
Diseases of the bones (tuberculosis excepted).....	2
Diseases of the joints (tuberculosis and rheumatism excepted).....	1

Other diseases of the organs of locomotion.....	2
Congenital malformations (stillbirth not included).....	1
Newborn child.....	115
Congenital debility.....	1
Other acute poisonings.....	10
Burns (conflagration excepted).....	5
Traumatism by firearms.....	5
Traumatism by cutting or piercing instruments.....	3
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....	10
Starvation.....	2
Fractures (cause not specified).....	13
Diseases not specified.....	3
No disease.....	49
Total .....	1,085

## SURGICAL OPERATIONS.

	Num <sup>b</sup> er.	Died.
<b>Amputations:</b>		
Forearm.....	1	
Digits, multiple.....	1	
<b>Adenectomy, inguinal:</b>		
Single.....	9	
Double.....	1	
<b>Herniotomy, inguinal, single</b>	7	
<b>Urethrotomy:</b>		
Internal.....	5	
External.....	2	
<b>Varicocele, radical cure</b>	1	
<b>Hydrocele, single, radical cure</b>	4	
<b>Curettage, uteri</b>	7	
<b>Pneumothoracotomy</b>	1	
<b>Hemorrhoids, radical cure</b>	3	
<b>Prolapsus rectum, radical excision</b>	1	
<b>Myorrhaphy</b>	2	
<b>Excision of surface neoplasms</b>	7	
<b>Plastic operation for congenital defect</b>	1	
<b>Plastic operation for severe injuries</b>	1	
<b>Plastic operation for effects of disease</b>	9	
<b>Laparotomy, exploratory</b>	2	1
<b>Appendectomy</b>	8	1
<b>Abscess of liver, laparo-hepatotomy for</b>	1	1
<b>Panhyysterectomy</b>	1	
<b>Supravaginal hysterectomy</b>	1	
<b>Hysteromyomectomy</b>	1	
<b>Salpingectomy, single</b>	1	
<b>Salpingo-oophorectomy</b>	2	
<b>Suspensio-uteri</b>	6	
<b>Major operations(various other)</b>	4	
<b>Minor operations (various)</b>	22	
Total .....	112	3

TABLE XVII.—SANITATION.

The following is a summary of sanitary work performed and material expended during the month of January, 1915, in the Canal Zone.

## Work requests on supply department:

Grass cutting .....	9
Screening.....	12
Miscellaneous.....	8

Work requests on engineering department.....	5
Notices served to abate nuisances.....	73
Arrests.....	5
Convictions.....	5
Inspections of closets.....	1,879
Inspections of stores.....	33
Inspections of restaurants.....	4
Inspections of shops.....	126
Garbage cans emptied.....	77,100
Closets disinfected.....	2,966
Rat traps used daily.....	7,796
Adult Anopheles destroyed in houses.....	21,722
Adult Culicles destroyed in houses.....	12,894
Adult Stegomyia destroyed in houses.....	12
Containers found with Stegomyia larvæ.....	30
Larvicide used.....	gallons. 508
Crude oil used.....	do. 12,186
Rats destroyed.....	567
Houses disinfected.....	1

## SUMMARY OF ROUTINE WORK DONE BY THE HEALTH OFFICE, PANAMA.

Mosquito, rat, and fly work:	
Linear feet of ditches cleaned and maintained.....	17,832
Linear feet of new ditches dug.....	10,146
Number of cubic yards earth used in filling.....	0
Gallons larvicide used.....	633
Gallons crude oil used.....	2,223
Square yards pools oiled.....	78,655
Water containers treated.....	38,165
Mosquito breeding places found (81 stegomyia).....	406
Fly breeding places found.....	302
Flies trapped (13,000 per quart).....	quarts. 120
Number rats caught.....	1,159
Number room disinfections.....	16
Garbage collections:	
Number loads garbage removed to dump.....	4,072
Total number of cans garbage emptied.....	107,685
Buildings:	
Number of buildings inspected.....	5,019
Number of plans for new buildings approved.....	20
Number of permits granted for repairs to old buildings.....	49
Total number of permits granted.....	69
Number of buildings condemned.....	8
Number of buildings demolished.....	3
Street cleaning:	
Average number of square yards cleaned daily.....	600,000
Average number of square yards street sprinkled daily.....	90,000
Number of private properties cleaned during month.....	3
Number of notices served and nuisances abated.....	84
Vaccinations:	
Number of vaccinations during month.....	1,994
Total number of vaccinations since Apr. 1, 1914.....	14,727

## WORK REPORT FOR COLON, CRISTOBAL, AND MOUNT HOPE.

[Health office, Cristobal, Jan. 31, 1915.]

Sanitation, general, Colon:	
Square yards street cleaned.....	3,973,226
Cubic feet fumigated (2 buildings).....	8,896
Square yards street sprinkled.....	290,600
Doses quinine issued (7 days only).....	2,060
Square yards alleys maintained.....	674,875
Private properties cleaned.....	39
Rats killed.....	319
Loads of yard garbage.....	405
Cans, garbage (2,148 cubic yards).....	67,028
Linear yards ditches maintained.....	6,764
Square yards vegetation removed.....	242,000

Sanitation, general, Colon—Continued.	
Parkway and E Street maintained.	
Chickens caught alive.....	14
Dogs caught alive.....	41
Dogs killed.....	40
Square yards oiled.....	11,475
Buildings inspected.....	3,550
Receptacles treated.....	25,400
Mosquito breeding places destroyed.....	103
Fly breeding places destroyed.....	111
Nuisances abated.....	259
Gallons larvacide used.....	103
Gallons crude oil used.....	111
Building, Colon:	
Plans approved.....	1
Permits to occupy issued.....	1
Permits to repair issued.....	89
Temporary permits to occupy issued.....	0
Bills for work for private parties, sales of garbage cans and stands and dump.....	113
Sewers, Colon:	
New connections made during month.....	3
Total connections made to date.....	1,169
Houses in which extensions were made.....	1
Outstanding permits.....	38
Sanitation, Cristobal:	
Cans, garbage (635 cubic yards).....	12,968
Loads yard garbage.....	127
Square yards vegetation removed.....	58,080
Square yards vegetation removed at wireless station.....	37,930
Square yards oiled.....	3,375
Receptacles treated.....	3,700
Mosquito-breeding places destroyed.....	17
Fly-breeding places destroyed.....	15
Buildings inspected.....	215
Gallons larvacide used.....	27
Gallons crude oil used.....	35
Sanitation, Mount Hope:	
Cans garbage (150 cubic yards).....	2,560
Square yards vegetation removed for Union Oil Co.....	29,260
Square yards oiled.....	47,690
Receptacles treated.....	16,300
Mosquito-breeding places destroyed.....	47
Mosquitoes caught in barracks—	
Anoph.....	176
Culex.....	1,044
Gallons larvacide used.....	42
Gallons crude oil used.....	865
Mount Hope Cemetery maintained.....	
Linear yards ditches maintained.....	14,200
Burials during the month.....	64
TABLE XVIII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL.	
Vessels inspected and passed.....	157
Vessels held in quarantine.....	12
Total vessels entered.....	169
Vessels fumigated on arrival.....	8
Crew examined.....	10,232
Passengers examined (including 320 United States troops).....	3,887
Total persons examined.....	14,119

Persons vaccinated at ports of arrival because of compulsory vaccination law.....	463
Persons vaccinated at ports of departure or en route because of compulsory vaccination law.....	1,326
Total persons vaccinated.....	1,789
Persons held in quarantine at the detention houses to complete period of incubation of yellow fever and plague.....	263
Persons held in quarantine on board vessels to complete period of incubation of yellow fever and plague.....	1,246
Total persons held under observation.....	1,509
Total persons landed from foreign ports:	
Cabin.....	2,378
Steerage.....	596
Total persons landed from foreign ports:	2,974
Cabin.....	1,464
Steerage.....	2,313
Total persons embarked for foreign ports:	3,777
Cabin.....	1,626
Steerage.....	1,902
Total persons arriving from coast towns on small launches and sailing craft.....	1,626
Total persons sailing for coast towns on small launches and sailing craft.....	1,902
Apparent decrease for month from coast towns.....	276
Apparent decrease for month from foreign ports:	
Cabin (increase).....	913
Steerage (decrease).....	1,717
Immigrants recommended for deportation.....	803
Bills of health issued or viséed.....	6
Total persons landed.....	170
Less number for Pacific ports.....	
4,600	4,461
139	5,679
Total number of persons sailing.....	
Total apparent decrease for month.....	1,218

## IMMIGRATION REPORT FOR COLON.

From—	Cabin.	Steerage.
Europe.....	35	19
United States.....	727	15
Jamaica and West Indies.....	64	246
Venezuela.....	3	3
Colombia.....	69	118
Cuba.....	36	16
Costa Rica.....	80	41
Bocas del Toro.....	39	181
Coast towns.....	0	218
Grand total, 1910.....	1,053	857
Men.....	1,148	
Women.....	383	
Children.....	161	
Unclassified.....	218	
Total.....	1,910	

## QUARANTINE—BOCAS DEL TORO.

Vessels inspected and passed.....	18
Crew inspected and passed.....	1,221
Passengers inspected and passed.....	302
Passengers, in transit, inspected and passed.....	275
Persons held to complete period of incubation of yellow fever.....	1

No quarantinable disease has appeared in this port, and the health conditions of the port and surrounding territory are good.

TABLE XIX.—STATEMENT OF QUININE ISSUED.

	Kilos.
Quinine sulphate.....	34
Quinine sulphate tablets.....	6
<b>Total.....</b>	<b>40</b>

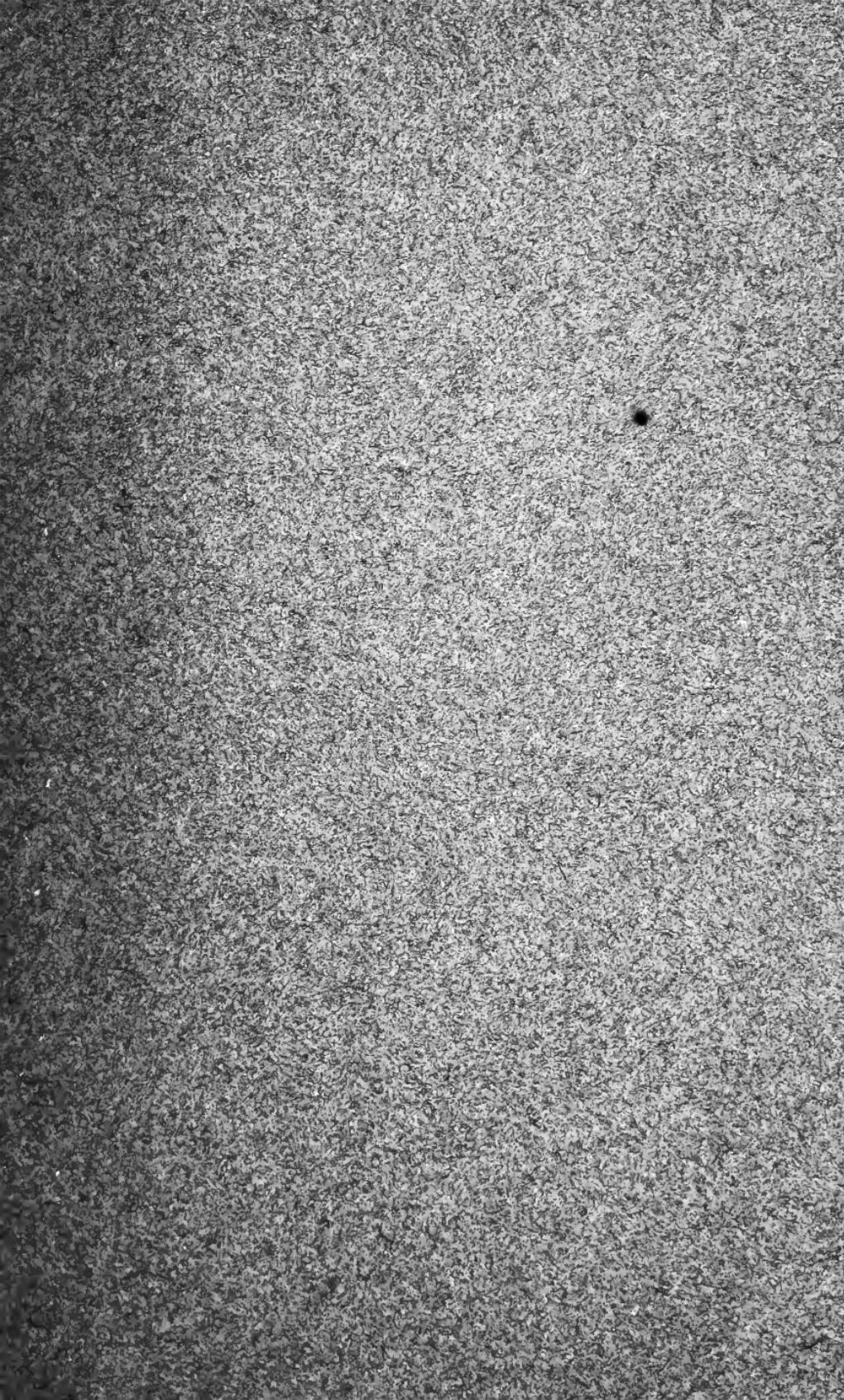
Pounds avoirdupois, 88.18.

TABLE XX.—PERSONNEL REPORT.

	January, 1915.			Decem- ber, 1914, Total.	January, 1914, Total.
	Officers and em- ployees.	Skilled and unskilled labor.	Total.		
Chief health office.....	3		3	4	20
Medical storehouse.....	5	3	8	8	8
Quarantine division.....	23	19	42	42	38
Health office:					
Panama.....	20	128	148	152	146
Colon.....	17	96	113	120	121
Ancon Hospital.....	237	111	348	347	486
Colon Hospital.....	23	11	34	23	33
Santo Tomas Hospital.....	5		5	5	5
Palo Seco Leper Asylum.....	10	12	22	17	16
Zone sanitation.....	19	81	100	97	154
Hospital farm.....	2	38	40	43	46
Dispensaries:					
Ancon.....					5
Balboa.....	7		7	6	6
Corozal.....	4		4	5	6
Cristobal.....					6
Culebra.....	3		3	3	5
Empire.....					6
Gamboa.....	1		1	1	
Gatun.....	3		3	4	8
Margarita Point.....	1		1	1	1
Naos Island.....	1		1	1	2
Paraiso.....	3		3	4	4
Pedro Miguel.....	3		3	3	3
Porto Bello.....					3
Toro Point.....					2
Total.....	390	499	889	886	1,130







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